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Digital Photography For Dummies Jan 01 2021 Your digital camera can do so much! And *Digital Photography For Dummies*, 6th Edition helps you shoot, edit, and share great photos. This full-color guide is packed with stuff that's not in your camera manual — tips on upgrading your equipment, working with focus and exposure, shooting like a pro, organizing and enhancing your images, and printing them or getting them online. Are you already you're hip-deep in images? Here's how to manage them. This guide helps you learn what you need for the way you take pictures, how to prolong battery life, the pros and cons of digital SLR, and more. Baffled by the lingo? The glossary explains all those terms and acronyms. You'll also learn to: Set up your camera for basic shooting and learn to use automatic mode, common scene modes, and all the camera's features Manage depth of field, exposure, and white balance, and make easy fixes with your photo editor Compose your photos for better pictures Easily transfer your pictures to the computer, print them, or distribute them electronically Edit your images and fix common problems like dim photos and red-eye Send photos to a cell phone Organize your pictures so you can find what you want Decide if your camera needs updating, what equipment you need, and what your digital darkroom should have Rich, full-color examples show what you can achieve. *Digital Photography For Dummies*, 6th Edition will make your digital camera a lot more fun!

[ANIMAL PHOTOS AND PREMIUM HIGH RESOLUTION PICTURES - ALBUM ART IMAGES - FULL COLOR HD](#) Mar 15 2022 > 55% OFF FOR BOOKSTORES ! 150 Animals Photo Gallery Ideas - Best Fine Art Photographers - Reative Prints - Printed In The USA !

Maximum PC Aug 20 2022 Maximum PC is the magazine that every computer fanatic, PC gamer or content creator must read. Each and every issue is packed with punishing product reviews, insightful and innovative how-to stories and the illuminating technical articles that enthusiasts crave.

The Extraordinary Guide to Basic Digital Imaging -2nd Edition Oct 29 2020 A complete and very understandable guide to all the terms, concepts, procedures and techniques that form the basis for a successful and satisfying digital photography experience. Learn about image resolution, file formats and compression, camera scene modes, organizing and preserving your images for posterity and much, much more. Features a detailed exploration of Picasa3, a free yet powerful image editing and digital asset management program from Google that offers a convenient and fully featured hub to accommodate all your imaging needs.

Image Super-Resolution and Applications Dec 12 2021 This book is devoted to the issue of image super-resolution—obtaining high-resolution images from single or multiple low-resolution images. Although there are numerous algorithms available for image interpolation and super-resolution, there's been a need for a book that establishes a common thread between the two processes. Filling this need, *Image Super-Resolution and Applications* presents image interpolation as a building block in the super-resolution reconstruction process. Instead of approaching image interpolation as either a polynomial-based problem or an inverse problem, this book breaks the mold and compares and contrasts the two approaches. It presents two directions for image super-resolution: super-resolution with a priori information and blind super-resolution reconstruction of images. It also devotes chapters to the two complementary steps used to obtain high-resolution images: image registration and image fusion. Details techniques for color image interpolation and interpolation for pattern recognition Analyzes image interpolation as an inverse problem Presents image registration methodologies Considers image fusion and its application in image super resolution Includes simulation experiments along with the required MATLAB® code Supplying complete coverage of image-super resolution and its applications, the book illustrates applications for image interpolation and super-resolution in medical and satellite image processing. It uses MATLAB® programs to present various techniques, including polynomial image interpolation and adaptive polynomial image interpolation. MATLAB codes for most of the simulation experiments supplied in the book are included in the appendix.

Book Design Made Simple Apr 27 2023 *Book Design Made Simple* gives DIY authors, small presses, and graphic designers--novices and experts alike--the power to design their own books. It's the first comprehensive book of its kind, explaining every step from installing Adobe(R) InDesign(R) right through to sending the files to press. For those who want to design their own books but have little idea how to proceed, *Book Design Made Simple* is a semester of book design instruction plus a publishing class rolled into one. Let two experts guide you through the process with easy step-by-step instructions, resulting in a professional-looking top-quality book

Computer Vision - ACCV 2012 Workshops Apr 03 2021 The two volume set, consisting of LNCS 7728 and 7729, contains the carefully reviewed and selected papers presented at the nine workshops that were held in conjunction with the 11th Asian Conference on Computer Vision, ACCV 2012, in Daejeon, South Korea, in November 2012. From a total of 310 papers submitted, 78 were selected for presentation. LNCS 7728 contains the papers selected for the International Workshop on Computer Vision with Local Binary Pattern Variants, the Workshop on Computational Photography and Low-Level Vision, the Workshop on Developer-Centered Computer Vision, and the Workshop on Background Models Challenge. LNCS 7729 contains the papers selected for the Workshop on e-Heritage, the Workshop on Color Depth Fusion in Computer Vision, the Workshop on Face Analysis, the Workshop on Detection and Tracking in Challenging Environments, and the International Workshop on Intelligent Mobile Vision.

The Photo CD Book Sep 20 2022 A hands-on guide to the most current information available regarding Photo CD technology, this book concentrates on the everyday, practical use. The companion CD-ROM will help readers to understand the capabilities of the Kodak Photo CD. Included on the CD-ROM are picture and application examples and an extensive practice session including picture editing, printing, and picture presentations.

[Complete Guide to Ultimate Digital Photo Quality](#) Jan 25 2023 For photographers, nothing's more important than superior image quality. Thanks to advancing technology, and this exciting new resource from long-time professional Derek Doeffinger, that's a goal any digital photographer can reach. Doeffinger has created the only book on the market that fully explains how to obtain maximum image quality at every step. In detail, he discusses how to achieve the ultimate result by choosing the right equipment, knowing the ideal camera settings for every situation, and intelligently adjusting exposure, focus, focal length, and shutter speed. Find out how to get the most out of digital software; color-correct, sharpen, and resize; or stitch numerous images together for maximum resolution. There are even tips for ensuring that the printed picture matches the quality of the original.

Simplified Procedures for Evaluating the Image Quality of Objective Lenses for Night Vision Devices Oct 22 2022

Bulletin of the Atomic Scientists Jun 25 2020 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic "Doomsday Clock" stimulates solutions for a safer world.

Digital Image Quality in Medicine May 24 2020 Making a good diagnostic image is only the beginning; keeping it good and diagnostically sound is a much more difficult proposition, one that is often neglected or forgotten by clinical practitioners. With anything digital, the assumption of persistent original quality opens a Pandora's box of medical fiascos. Poorly selected image interpolation, thoughtlessly used compression, confused image enhancement options and the like can transform a good original into a useless clutter of pixels. This book is dedicated to learning better options. Intended for physicians, clinical practitioners and applications specialists, it provides a well-rounded introduction to meaningful diagnostic image housekeeping. The book presents the most important aspects of safe digital image workflows, starting from the basic practical implications and gradually uncovering the underlying concepts and algorithms. With an easy-to-follow, down-to-earth presentation style, the text helps you to optimize your diagnostic imaging projects and connect the dots of medical informatics.?

Using Your Digital Camera Nov 10 2021 Join the digital revolution and take better pictures than you've ever dreamed possible. Intimidating technical terms become easy to understand, and forbidding bells and whistles become easy to manipulate. With detailed illustrations, see how the camera works. Learn to use memory cards. Then master the art of editing pictures on your PC, including special editing effects to enhance a photo's mood, transform its background, or delete clutter. Quickly, you're ready to print pictures on your printer and e-mail them to your friends. Later sections show you how easy it is to add accessories such as close-up, telephoto, and wide-angle lenses, remote controls, and software for editing and storage. Along the way: first-person accounts of "disasters and how I fully recovered."

Beginners Guide to Wildlife Photography May 17 2022 Written by Multi Award Winning Australian Photographer, Trainer and Best Selling Author Steve Rutherford. This book, The Beginners Guide to Wildlife Photography is one of the best selling "Beginners Guide to Photography" book series and is an easy to understand practical guide to wildlife photography. Here is what you will discover; * The SECRET TECHNIQUES pro photographers use every day * FREE Access to BONUS VIDEO TRAINING to learn photo editing like a pro * Over 200 pages of hands on easy to follow instruction * The equipment that takes your shots from boring to amazing * How to save time and money using the right photography tools * How to turn your photography passion and creativity into a BIG \$ income You will discover the many secrets that I, and other pro photographers, use to capture stunning award winning photos, with sharper focus, more color, more detail and less time wasting, trying every setting to "hope for a good shot". Set out into an easy to follow, page by page guide, join me indoors, outdoors and at night on all aspects of photography and how to take control of your DSLR Camera, and master striking photos, with every shoot. The Beginners Guide to Wildlife Photography, is clearly written, easy-to-understand guide will be an indispensable resource whenever you pick up the camera for your next wildlife photography shoot. You'll also get FREE access to Video Training at - <https://www.photocheats.com>. Also FREE Access to One Shot Magazine at - <http://www.oneshotmagazine.com>. It is packed full of tips and tricks to improve your photography. Just follow the links to both Photo Cheats and One Shot Magazine in the book or Like us over at <https://www.facebook.com/OneShotMagazine> Please also come back and leave a review we would love to know what you thought of this book. Don't forget to check out the other books in the "Beginners Guide to Photography" book series. Written with all levels in mind, there is instruction for beginners, as well as many advanced techniques and tips. I have also included "live website links" throughout, as well as easy to find "quick tip" sections. The "Beginners Guide to Photography" book series breaks techniques down into specific categories so you can perfect these techniques. Please see the other books in the series for more in depth tutorials on a large range of photography styles. Please also come back and leave a review we would love to know what you thought of this book. Don't forget to check out the other books in the "The Beginners Guide to Photography" best selling photography book series. ***** 5 STAR REVIEWS for this book series so far ***** "Explanatory, easy descriptions involved material" "Loved it has helped me in numerous ways. Have used it as a reference constantly. One of my photos has gone viral since using the hints and tips in the book. Small adjustments make huge differences." - Mike Roche. "Has absolutely everything" "Do not miss out on this book. As the title says it has absolutely everything and I particularly like the boxes with advice to shoot particular subjects. It doesn't matter whether you are just starting out or experienced with a camera, it has something for everyone. Highly recommended!" - Paul B "Well worth the money" "Great book that starts from the very basics, explains everything to do with modern cameras, their use, settings and techniques under different settings and circumstances." - Qball "A great read" "Getting back into photography after a 6 yr break - born and raised on a film SLR, this book helped me remember things and to better adapt to a digital SLR - whether you're novice or experienced, you will get a lot out of this book...." - Brian I love this book and hope to capture few good images as a result of this." - Jatinkumar.

Popular Mechanics Aug 27 2020 Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle.

Study of Quality of Aerial Photography Jul 31 2023

PROFESSIONAL STOCK PHOTOS AND PRINTS - 150 BUTTERFLY PHOTOGRAPHY IDEAS - FULL COLOR HD Mar 03 2021 " HIGH QUALITY BOOK ! 150 Butterfly Pictures And Premium High Resolution Images - Premium Photo Book - Printed In The USA !

Image Restoration Apr 23 2020 Image Restoration: Fundamentals and Advances responds to the need to update most existing references on the subject, many of which were published decades ago. Providing a broad overview of image restoration, this book explores breakthroughs in related algorithm development and their role in supporting real-world applications associated with various scientific and engineering fields. These include astronomical imaging, photo editing, and medical imaging, to name just a few. The book examines how such advances can also lead to novel insights into the fundamental properties of image sources. Addressing the many advances in imaging, computing, and communications technologies, this reference strikes just the right balance of coverage between core fundamental principles and the latest developments in this area. Its content was designed based on the idea that the reproducibility of published works on algorithms makes it easier for researchers to build on each other's work, which often benefits the vitality of the technical community as a whole. For that reason, this book is as experimentally reproducible as possible. Topics covered include: Image denoising and deblurring Different image restoration methods and recent advances such as nonlocality and sparsity Blind restoration under space-varying blur Super-resolution restoration Learning-based methods Multi-spectral and color image restoration New possibilities using hybrid imaging systems Many existing references are scattered throughout the literature, and there is a significant gap between the cutting edge in image restoration and what we can learn from standard image processing textbooks. To fill that need but avoid a rehash of the many fine existing books on this subject, this reference focuses on algorithms rather than theories or applications. Giving readers access to a large amount of downloadable source code, the book illustrates fundamental techniques, key ideas developed over the years, and the state of the art in image restoration. It is a valuable resource for readers at all levels of understanding.

New Dimensions in Photo Processes Nov 22 2022 "An ideal book for someone keen to experiment with old techniques." Professional Photographer magazine

Camera Image Quality Benchmarking Jun 29 2023 The essential guide to the entire process behind performing a complete characterization and benchmarking of cameras through image quality analysis Camera Image Quality Benchmarking contains the basic information and approaches for the use of subjectively correlated image quality metrics and outlines a framework for camera benchmarking. The authors show how to quantitatively compare image quality of cameras used for consumer photography. This book helps to fill a void in the literature by detailing the types of objective and subjective metrics that are fundamental to benchmarking still and video imaging devices. Specifically, the book provides an explanation of individual image quality attributes and how they manifest themselves to camera components and explores the key photographic still and video image quality metrics. The text also includes illustrative examples of benchmarking methods so that the practitioner can design a methodology appropriate to the photographic usage in consideration. The authors outline the various techniques used to correlate the measurement results from the objective methods with subjective results. The text also contains a detailed description on how to set up an image quality characterization lab, with examples where the methodological benchmarking approach described has been implemented successfully. This vital resource: Explains in detail the entire process behind performing a complete characterization and benchmarking of cameras through image quality analysis Provides best practice measurement protocols and methodologies, so readers can develop and define their own camera benchmarking system to industry standards Includes many photographic images and diagrammatical illustrations to clearly convey image quality concepts Champions benchmarking approaches that value the importance of perceptually correlated image quality metrics Written for image scientists, engineers, or managers involved in image quality and evaluating camera performance, Camera Image Quality Benchmarking combines knowledge from many different engineering fields, correlating objective (perception-independent) image quality with subjective (perception-dependent) image quality metrics.

Computational Intelligence Methods for Super-Resolution in Image Processing Applications Mar 27 2023 This book explores the application of deep learning techniques within a particularly difficult computational type of computer vision (CV) problem ? super-resolution (SR). The authors present and discuss ways to apply computational intelligence (CI) methods to SR. The volume also explores the possibility of using different kinds of CV techniques to develop and enhance the tools/processes related to SR. The application areas covered include biomedical engineering, healthcare applications, medicine, histology, and material science. The book will be a valuable reference for anyone concerned with multiple multimodal images, especially professionals working in remote sensing, nanotechnology and immunology at research institutes, healthcare facilities, biotechnology institutions, agribusiness services, veterinary facilities, and universities.

Development of a Psychophysical Photo Quality Measure Dec 24 2022 In extracting information from aerial reconnaissance/sensor products, the image interpreter must often work with imagery of less than ideal quality. The Surveillance Systems research program of the Army Research Institute is designed to identify factors of photo quality that can help measure the interpretability of operational imagery. In the present experiment, image scale, atmospheric haze, and image motion were judged to be key factors in operational interpretability of imagery. Laboratory manipulation of representative operational images produced experimental images with controlled degradation of these three factors, separately and in combination. Image interpreters were asked to detect and identify military targets on this degraded imagery. Their scores were used to assess interpretability as a function of scale, haze, and image motion. In a parallel experiment, geometric shapes were positioned on background panels of black, white, and grey. Photographs of this array were degraded with respect to scale, haze, and image motion to the same levels as the first experimental imagery, and similar tests were conducted. (Modified author abstract).

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Psychophysical Aspects of Image Quality Feb 11 2022

Handbook of Image Quality Aug 08 2021 With 300 figures, tables, and equations, this book presents a unified approach to image quality research and modeling. The author discusses the results of different, calibrated psychometric experiments can be rigorously integrated to construct predictive software using Monte Carlo simulations and provides numerous examples of viable field applicati

Multi-resolution Image Fusion in Remote Sensing May 29 2023 Written using clear and accessible language, this useful guide discusses fundamental concepts and practices of multi-resolution image fusion.

Recent Advances in Image Fusion and Quality Improvement for Cyber-Physical Systems Jul 07 2021

New Dimensions in Photo Processes Feb 23 2023 New Dimensions in Photo Processes invites artists in all visual media to discover contemporary approaches to historical techniques. Painters, printmakers, and photographers alike will find value in this practical book, as these processes require little to no knowledge of photography, digital means, or chemistry. Easy to use in a studio or lab, this edition highlights innovative work by internationally respected artists, such as Robert Rauschenberg, Chuck Close, Mike and Doug Starn, and Emmet Gowin. In addition to including new sun-printing techniques, such as salted paper and lumen printing, this book has been updated throughout, from pinhole camera and digital methods of making color separations and contact negatives to making water color pigments photo-sensitive and more. With step-by-step instructions and clear safety precautions, New Dimensions in Photo Processes will teach you how to: Reproduce original photographic art, collages, and drawings on paper, fabric, metal, and other unusual surfaces. Safely mix chemicals and apply antique light-sensitive emulsions by hand. Create imagery in and out of the traditional darkroom and digital studio. Relocate photo imagery and make prints from real objects, photocopies, and pictures from magazines and newspapers, as well as from your digital files and black and white negatives. Alter black and white photographs, smart phone images, and digital prints.

The Camera Phone Book Oct 10 2021 Marketing experts predict that by 2009, nearly 90% of all cell phones will contain a camera, as manufacturers race to create cheaper, easier-to-use models with more sophisticated cameras, more pixels, flash units and even multiple lenses. Already revolutionizing audiovisual communication, it's a trend that will only grow more explosively—and who better than National Geographic to create a how-to book aimed directly at the millions who carry a camera phone everywhere and want to make the most of it? Created by two top professionals, this generously illustrated nuts-and-bolts guide is the first of its kind to treat these units as genuine cameras instead of novelties, and the only one to include a full-color photo-essay demonstrating the full capabilities of the latest camera phones. In five easy-to-read chapters, the book explains how to choose good equipment; take better pictures; and store, print and send the best images. Readers will find practical tips on preventing or repairing water damage, protecting easily-scratched lenses inside pockets and purses, and retrieving accidentally-erased images. They'll also learn to access the events, advice, and opportunities of the burgeoning camera phone community, from film festivals to news organizations, moblogs, and more. Featuring the technical savvy of CNet.com's Aimee Baldrige and the creative skill of National Geographic photographer Robert Clark, a camera phone pioneer, this compact yet comprehensive reference combines up-to-the-minute expertise with superb examples, at an inexpensive price that makes it a perfect gift book—or an ideal impulse buy.

Popular Mechanics Jan 30 2021 Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle.

Working Woman Sep 28 2020

Digital Photography Pocket Guide Apr 15 2022 Even film diehards have a tough time resisting the instant gratification of the digital camera. Today's digital cameras are more affordable than ever before, and they

deliver high quality images that are a snap to share. Plus, you can take risks with a digital camera you never would with a film camera. You waste nothing; there's no film required, and because you only print the pictures you need, digital photography is cost effective and environmentally friendly. But to take full advantage of a digital camera, you need to be an experienced photographer and an expert at digital photography too. With more than 15 years of experience as a photojournalist, author Derrick Story brings you *Digital Photography Pocket Guide, 3rd Edition*. For everyone who owns or will own a digital camera (and that pretty much means everyone!), this is the perfect on-the-go guide for taking top-notch digital photos. In this third edition of the bestselling pocket guide, Story expands on the basic photography techniques that he introduced in earlier editions, including an explanation of each camera component and what it does, tips for choosing just the right settings for your needs, and much more. This indispensable guide covers everything from how to shoot sports action, close ups, and night shots, to dealing with image resolution, archiving, and memory cards. Affordable and portable, *Digital Photography Pocket Guide, 3rd Edition* offers full-color photographs, screen shots, and line art illustrating all the topics in the guide's three main sections ("Digital Camera Components," "Standard Camera Functions," and "How Do I?"). Contents are labeled A to Z for quick reference. There's also a comprehensive table of contents and index so you'll waste no time flipping to the specific information you need--whether you want to transfer images, make a QuickTime movie, or just figure out what purpose that mystery setting on your camera serves. There's even a section of easy-to-read reference tables for quick look-up of white balance settings, exposure compensation, camera mode explanations, and plenty more.

Super Resolution of Images and Video Jan 13 2022 Authors Katsaggelos, Molina, and Mateos present in a systematic way the building blocks of the Bayesian framework, which is also used as a reference in reviewing and comparing Super Resolution (SR) approaches which have appeared in the literature. This work should serve as a reference to the graduate student who would like to work in this area, to the practicing engineer, and scientists applying some of the tools and results to other related problems. The authors present a case that there is a strong relationship between the tools and techniques developed for SR and a number of other inverse problems encountered in signal processing (e.g., image restoration, and motion estimation). SR techniques can also be an integral part of an image and video codec and they can drive the development of new coder-decoders (codecs) and standards.

New Dimensions in Photo Processes Jul 19 2022 Clear instructions and step-by-step photographs teach you how to mix chemicals and apply light-sensitive emulsions by hand, how to create imagery in and out of the darkroom, how to translocate Polaroid photos and magazine and newspaper pictures, and how to alter black-and-white photographs. A color portfolio highlights the work of internationally known artists such as Robert Rauschenberg, Todd Walker, and most recently Doug and Mike Starn, and an invaluable list of supply sources (including e-mail addresses) from throughout North America and Europe is included at the end of the book. Setting aside old distinctions between photographer and nonphotographer, *New Dimensions in Photo Processes* invites artists in all media to discover nonsilver imaging techniques. Painters, printmakers, fiber artists, sculptors, illustrators and photographers alike will find this a valuable, practical text outlining creative processes that require little or no knowledge of photography and chemistry.

Image Super-Resolution and Applications Jun 05 2021 This book is devoted to the issue of image super-resolution-obtaining high-resolution images from single or multiple low-resolution images. Although there are numerous algorithms available for image interpolation and super-resolution, there's been a need for a book that establishes a common thread between the two processes. Filling this need, *Image*

Iterative-Interpolation Super-Resolution Image Reconstruction Sep 01 2023 To my wife, Mitu - Vivek Bannore Preface Preface In many imaging systems, under-sampling and aliasing occurs frequently leading to degradation of image quality. Due to the limited number of sensors available on the digital cameras, the quality of images captured is also limited. Factors such as optical or atmospheric blur and sensor noise can also contribute further to the d- radation of image quality. Super-Resolution is an image reconstruction technique that enhances a sequence of low-resolution images or video frames by increasing the spatial resolution of the images. Each of these low-resolution images contain only incomplete scene information and are geometrically warped, aliased, and - der-sampled. Super-resolution technique intelligently fuses the incomplete scene information from several consecutive low-resolution frames to reconstruct a hi- resolution representation of the original scene. In the last decade, with the advent of new technologies in both civil and mi- tary domain, more computer vision applications are being developed with a demand for high-quality high-resolution images. In fact, the demand for high- resolution images is exponentially increasing and the camera manufacturing te- nology is unable to cope up due to cost efficiency and other practical reasons.

Color Management and Print Prep in Photoshop CS6 for Windows Sep 08 2021 Color Management and Print Prep in Photoshop CS6 for Windows – Setting up devices and files for color matching Color management can be an intimidating subject for anyone who's new to working with graphics and professional printing. Achieving the perfect match between onscreen and printed colors every time mixes a good deal of art with science. Photoshop includes tools to improve color matching, and *Color Management and Print Prep in Photoshop CS6 for Windows* gives you a solid introduction to the color management fundamentals to use those tools effectively. In this book, you'll learn the technical basics for better color output and how to set up Photoshop CS6 for Windows with appropriate settings for working in color. **Tasks You'll Learn**
Section 1 • Understand color management and workflow • Understand working spaces and profiles • Change the working space • Proof colors onscreen • Find out of gamut colors
Section 2 • Understand file formats and output to PDF • Set color management policies • Assign a color profile to a file • Convert a file to another mode and profile
Section 3 • Use the Photoshop Print Settings dialog box • Print a single copy • Learn about printer's marks • Create a proof • Learn about PMS colors • Create duotones and spot colors

Contrast Sensitivity of the Human Eye and Its Effects on Image Quality Jul 27 2020 This book examines the contrast sensitivity of the human visual system - concerning the eye's ability to distinguish objects from each other or from the background - and its effects on the imageforming process. The text provides equations for determining various aspects of contrast sensitivity, in addition to models that easily can be used for practical applications.

Image Mosaicing and Super-resolution May 05 2021 This book investigates sets of images consisting of many overlapping viewsofa scene, and how the information contained within them may be combined to produce single images of superior quality. The generic name for such techniques is frame fusion. Using frame fusion, it is possible to extend the fieldof view beyond that ofany single image, to reduce noise, to restore high-frequency content, and even to increase spatial resolution and dynamic range. The aim in this book is to develop efficient, robust and automated frame fusion algorithms which may be applied to real image sequences. An essential step required to enable frame fusion is image registration: computing the point-to-point mapping between images in their overlapping region. This sub problem is considered in detail, and a robust and efficient solution is proposed and its accuracy evaluated. Two forms of frame fusion are then considered: image mosaic ing and super-resolution. Image mosaicing is the alignment of multiple images into a large composition which represents part of a 3D scene. Super-resolution is a more sophisticated technique which aims to restore poor-quality video sequences by mod elling and removing the degradations inherent in the imaging process, such as noise, blur and spatial-sampling. A key element in this book is the assumption of a completely uncalibrated cam era. No prior knowledge of the camera parameters, its motion, optics or photometric characteristics is assumed. The power of the methods is illustrated with many real image sequence examples.

Foundations of Astronomy Nov 30 2020 Fascinating, engaging, and extremely visual, *Foundations of Astronomy Twelfth Edition* emphasizes the scientific method throughout as it guides students to answer two

fundamental questions: What are we? And how do we know? Updated with the newest developments and latest discoveries in the exciting study of astronomy, authors Michael Seeds and Dana Backman discuss the interplay between evidence and hypothesis, while providing not only fact but also a conceptual framework for understanding the logic of science. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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